

ABSTRACT

In carrying out bidirectional communication with a base station device, one frame is prescribed for each predetermined time period T_f and a plurality of time slots are formed in one frame. In slots T_1, T_2, \dots, T_n of an uplink period T_u , communication of a down link from the base station device to a communication terminal device is carried out by using a multi-carrier signal having data dispersed to m units of subcarriers for transmission (where m is an integer not smaller than 2), and communication of an up link from the communication terminal device to the base station is carried out by using a multi-carrier signal having data dispersed to j units of subcarriers for transmission (where j is an integer smaller than m) or a multi-carrier signal having data dispersed to m units of subcarriers for transmission.